

IN THE CLAIMS:

Please cancel claims 1-3 and add new claims 4-7.

Claims 1-3 (canceled).

4. (new): An assisted reverberation or room acoustic enhancement system,

comprising:

multiple microphones positioned to pick up reverberant sound in a room,

multiple loudspeakers to broadcast sound into the room, and

a multichannel reverberator, comprising:

multiple signal inputs, one for each input channel and which receive similar

bandwidth signals from the microphones;

a number of feed back comb filter networks connected one to each signal input,

each comb filter network including a feed forward stage to provide a substantially

constant multi-channel power gain at audio frequencies;

a cross-coupling network cross-coupling the comb filters to increase the

reverberation echo density;

and multiple signal outputs, one for each output channel.

5. (new): An assisted reverberation or room acoustic enhancement system

according to claim ⁴~~1~~, wherein the feed forward stage of the comb filters provides a
transfer function matrix which is unitary at each frequency in the audio range.

6. (new): An assisted reverberation or room acoustic enhancement system

according to claim ⁴~~1~~, wherein the cross-coupling matrix is an orthogonal cross-coupling
matrix cross-coupling a number of single channel allpass comb filters, positioned